tecnosoft
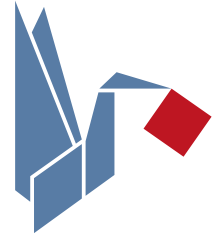## WE DELIVER DATA

FOOD AND BEVERAGES

SOLUTIONS FOR STERILIZATION, PASTEURIZATION, COOKING AND CHILLING MONITORING

We deliver data

TECNOSOFT, was founded in 1989, as a research and development company specialized in technical-scientific fields, acquisition systems data and solutions for many different sectors including pharmaceutical, medical, healthcare and food.

30 years of experience have helped us develop extensive knowledge of the problems related to the process control aspects when designing solutions for the collection and analysis of data in various areas and food is the first sector in which we have begin to propose systems branded TECNOSOFT.

Thanks to its flexibility and its continuous updating Tecnosoft manages to grasp quickly user needs and turn them into new systems or existing solutions updates, as well as being able to customize them according to different needs.

TECNOSOFT's Advisory Team is capable to guide the customer in the choice of the right solution for every application, in addition to provide a full service such as short and long term rentals and assistance after-sales.

Since 2002 TECNOSOFT has implemented an ISO first certified quality system 9001: 2000 and now 9001: 2015, passing through the 9001: 2008.

Regulatory Compatibility

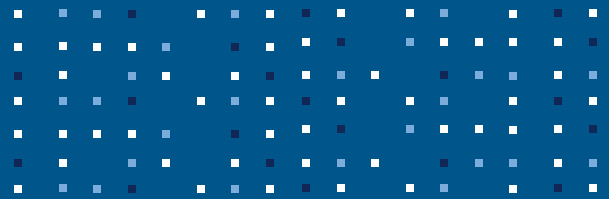| TECNOSOFT systems comply with industry standards and international guidelines.	
UNI EN 285	Sterilization - Steam sterilizers - Large sterilizers
HACCP	Hazard analysis and critical control points
FDA 21 CFR Part 11	US FDA Regulations for Electronic Registration Systems
BRC	British Retail Consortium - Regulations of the British Retail Consortium

Application fields
for process monitoring

The range of TECNOSOFT temperature, pressure and humidity data loggers, is suitable for multiple application:

- Beverages, canned food and jams pasteurization processes,
- Canned food in tinplate, cans and jars sterilization processes
- Autoclaves monitoring
- Retorts monitoring
- Monitoring of fresh filled pasta
- Pasta and grains drying processes
- Cooking processes
- Bakery
- Cooling processes
- Ovens
- Smokehouses

Their design, the AISI1316L stainless steel material and the IP68 degree of protection make them extremely versatile.

The Data Loggers: Temperature, Pressure and Humidity

All Loggers are supplied with a traceable Accredia calibration certificate and the battery is user replaceable.

	SterilDisk	S-Micro	S-Micro L	S-Micro XL	S-Radio	PressureDisk	RHTemp L	RHTemp XL
⬍	17,4 mm	14 mm	39 mm	64 mm	76 mm	43.22 mm	46 mm	71 mm
Ø	36,5 mm	17 mm	17 mm	17 mm	30 mm	35 mm	18 mm	18 mm
Probe	No probe Rigid Flexible	Rigid	Rigid	Rigid	Rigid	Radial rigid	-	-
Battery autonomy								

Steril Disk **Steril Disk Probe 10** **Pressure Disk** **Steril Disk Probe**

S-Radio

S-Micro **S-Micro L** **S-Micro XL** **RH Temp 125 L** **RH Temp XL**

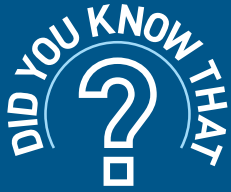**Maximum data logger range*:**
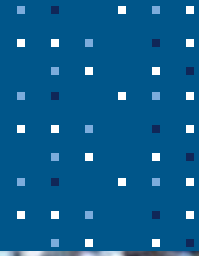-40°C ÷ +140°C

Maximum probe range*:
-40°C ÷ +220°C

Maximum accuracy:
±0,1°C, ±15 mbar (PressureDisk), ±1,8% (RHTemp)

* check the range actually covered by each data logger and probe, as well as the technical data of each device, on the website

DID YOU KNOW THAT?

Good or bad
microorganisms?

There are many microorganisms in nature, some are "good" and others are "bad".

The pasteurization process reduces the level of microorganisms saving a good part of the organoleptic qualities of the product, while for sterilization the only microorganism good is the dead one; of course the organoleptic characteristics of the product are altered, but this is often the only system to obtain a shelf life of many years.

The pasteurization process owes its name to the French chemist Louis Pasteur.

What information does a pasteurization or sterilization operator want?
Simply, the duration and the temperature of the pasteurization or sterilization process.
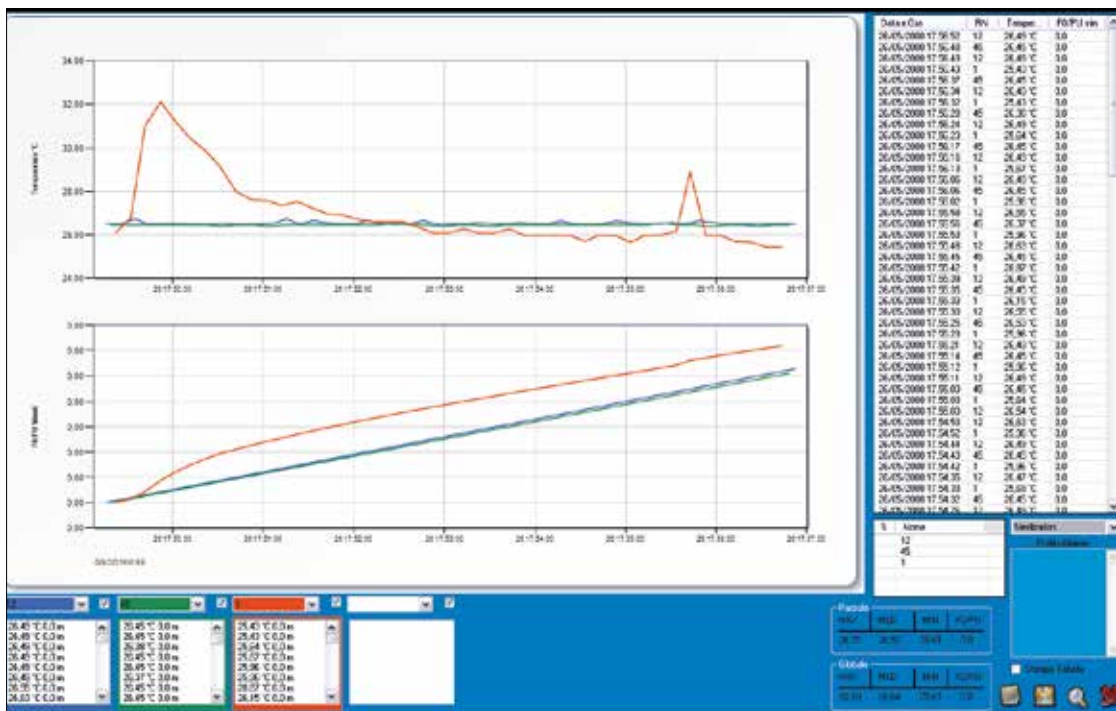What is being asked is the F or P value for a certain temperature. In sterilization is defined a specific value of F, F0, which is the duration of the sterilization process at 121.11 °C (or 250 °F). In pasteurization we should speak of PU (Pasteurisation Units: a pasteurization unit is defined as 1 minute of product exposure at 60 °C) to a certain temperature, but F is often used indifferently.
F (or P) is the value in minutes, of the duration of the pasteurization or sterilization process at a certain temperature.

SPD: management software

SPD is the Data Logger management software for high temperatures; simple to use, intuitive and flexible.

Some features you can use with SPD:
- Set the acquisition rate
- Starting delay
- Define the duration of the mission
- View the multi-graph with more curves
- Calculate the lethality value (F0, PU, A0 etc.)

- Customize some parameters
- Print complete reports complete with graph, table, mission data, serial number of the instrument used and any notes added by the operator

It is also available the TS Manager, an Advanced validation Software for the management of temperature, humidity and pressure data loggers. It meets all the requirements of the FDA 21 regulations CFR Part 11, GAMP5, Annex 11. It is dedicated to processes and instrumentation validations, in particular the one of autoclaves.

The software can be downloaded from the Tecnosoft website and works only with its hardware protection key.

The accessories

- DiskInterface HS, connection base to the PC for programming and reading data.
- Thermal protections, for applications above 140 °C. They protect the data loggers up to 220 °C for a certain time.
- Universal opening tool for the battery change.

- Fixing system for the correct positioning of the sensor at the hot / cold point depending on the process, in closed packages.
- Fixing base, it's used to place the loggers inside vases, jars, bottles, flasks, in the open packages.

with fixing nut and rivet

with adhesive rubber

with adhesive rubber

with fixing nut and rivet

with fixing nut and rivet

with fixing nut and rivet

with adhesive rubber

with fixing base

with fixing nut

What TECNOSOFT offers

Calibration and ISO certificates

gft studio

Maintenance and battery change in our laboratories

Technical assistance

Rental services with certified loggers

Personalization and extra calibration points

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